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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,148	04/04/2005	Torbjorn Jacobsson	P69855US0	5249
136 7590 09/10/2009 IACOBSON HOLMAN PLLC			EXAMINER	
400 SEVENTH STREET N.W.			LOW, LINDS AY M	
SUITE 600 WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
	. ,		3721	
			MAIL DATE	DELIVERY MODE
			09/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/500,148 JACOBSSON ET AL. Office Action Summary Examiner Art Unit LINDSAY M. LOW -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status

## С

2a)□ 3)□	Responsive to communication(s) filed on 30 June 2009.  This action is FINAL.  2b) This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Dispositi	on of Claims
5)□ 6)⊠ 7)□	Claim(s) 1.2 and 4-9 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 1.2 and 4-9 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.
9)	on Papers  The specification is objected to by the Examiner.  The drawing(s) filed on is/are: a) _ accepted or b) _ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
riority u	nder 35 U.S.C. § 119
a)[	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  All   b  Some * 0  None of:  1.   Certified copies of the priority documents have been received.  2.   Certified copies of the priority documents have been received in Application No  3.   Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  ee the attached detailed Office action for a list of the certified copies not received.

PTOL-326 (Rev. 08-06)

Notice of References Cited (PTO-892)

Paper No(s)/Mail Date \_

3) Information Disclosure Statement(s) (PTO/SS/08)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

4) Interview Summary (PTO-413) Paper No(s)/Mail Date. \_

6) Other:

Notice of Informal Patent Application.

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## DETAILED ACTION

1. This action is in response to applicant's RCE received on June 30<sup>th</sup>, 2009.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

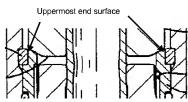
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 1-2 and 4-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Wolfer et al (5,566,771).

Wolfer discloses the same invention including a hammer-piston 9, a drill bit 84 having an upper end 96, a chuck 80, an air cushion (formed by chamber 13) at a position when the drill bit 84 has been moved past a predetermined distance in a percussion direction (see Fig. 6). The drill bit 84 is sealingly slidingly supported in a drill bit bushing 88. Note that the uppermost end surface of the drill bit bushing 88 is deemed to be the surface designated in the figure below. Since the hammer-piston 9 is tapered at the bottom end (see Fig. 6), the tapered portion fits inside the drill bit bushing (i.e. moves below the upper end surface as shown in the figure below). Therefore, the hammer-piston is deemed to be "moveable" inside the drill bit bushing. The air cushion forms a sealed air volume defined between upper end 96 of the drill bit 84, the hammer end 34 of the hammer-piston 9, and laterally by the drill bit bushing 88. Strikes performed by the hammer-piston 9 are cushioned by the air cushion. The drill bit is exposed to percussive energy peaks, as is what happens each time the hammer-piston

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is fired. Note that the air cushion is capable of reducing the percussion power, as it aids in returning the piston to an initial position. The drill bit bushing 88 and a hammer piston chamber is supported by a housing 7. A leakage passage 114 allows pressure-air to leak past the driving device in advanced positions in the percussion direction. The hammer-piston 9 has a central axial channel 44 and continues in the drill bit (bore 86) over a foot valve 98. The air cushion is limited by an outside surface of the foot valve 98.



### Response to Arguments

 Applicant's arguments filed June 30<sup>th</sup>, 2009 have been fully considered and are believed to have been addressed in the above rejection.

### Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to LINDSAY M. LOW whose telephone number is (571)272-1196. The examiner can normally be reached on Monday thru Friday 7:30 to 5:00. Application/Control Number: 10/500,148 Page 4

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6. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

7. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/L. M. L./

Examiner, Art Unit 3721

/Rinaldi I Rada/

Supervisory Patent Examiner, Art Unit 3721

9/9/2009